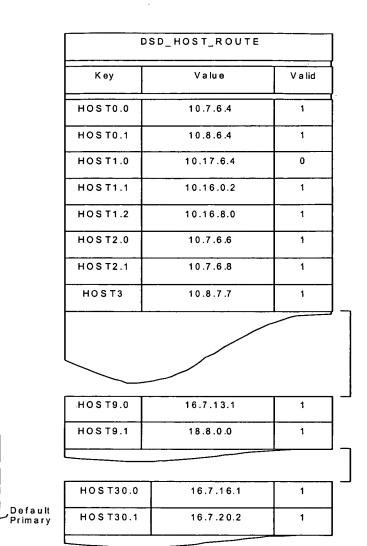


Key	V a lu e	V a lid
G W .1	HOST2.1860	1
G W .2	HOST3.1862	1
G W .3	HOST4.1863	1
G W .4	HOST2.1864	1
G W .5	HOST2.1880	1

FIG. 2A

DS	D_MTID_METADATA	
Кеу	V a lu e	V a lid
MDS.1	HOS T9:1872	1
MDS.1.0	HOST11:1281	1
MDS.1.1	HOS T9:1872	1
MDS.2	HOST10:1884	1
MDS.3	HOST12:1283	1

FIG. 2B



F IG . 2 D

	DSD_MTID_BSS	-
Кеу	V a lu e	V a lid
B S S . 1	HOST30.1008	1
B S S . 2	HOST31.1010	1
B S S .3	HOST32.1012	1
B S S . 4	HOST42.1481	1

FIG. 2C

Values not in key table apply algorithm e.g mod 3

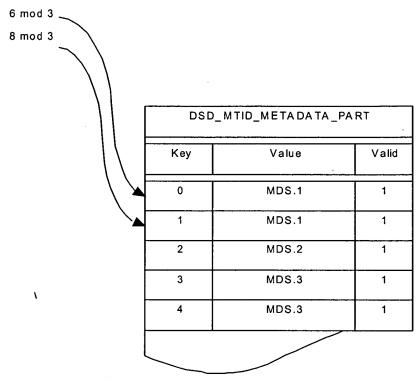


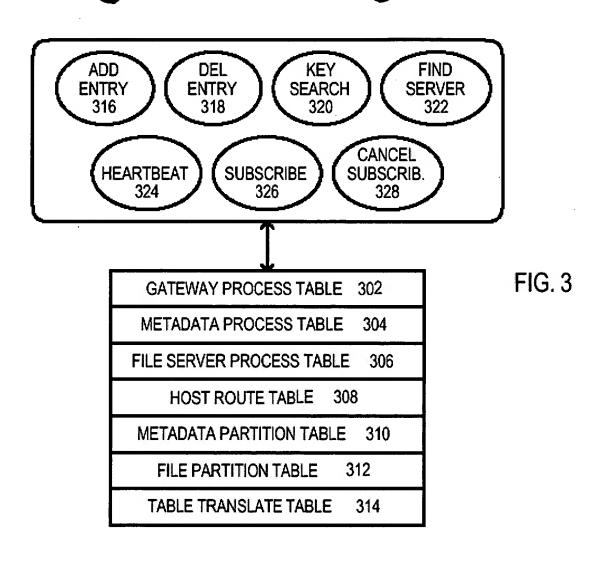
FIG. 2G

DSD_N	ITID_METADATA_	PART
Key	Value	Valid
0	MDS.1	1
1	MDS.1	1
. 2	MDS.2	1
3	MDS.3	1
4	MDS.3	1
		,

FIG. 2E

D	SD_MTID_BITFILE_PAR	Г
Key	Value	Valid
0	BSS.4	1
1	BSS.5	1
2	BSS.16	1
3	BSS.3	1
4	BSS.1	1
5	BSS.6	1

FIG. 2F



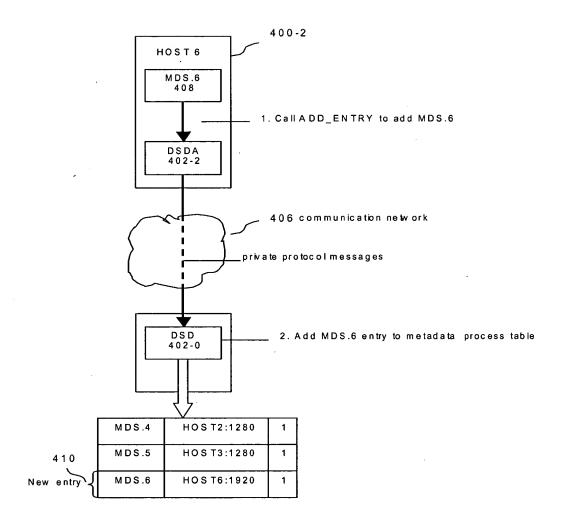


FIG . 4 A

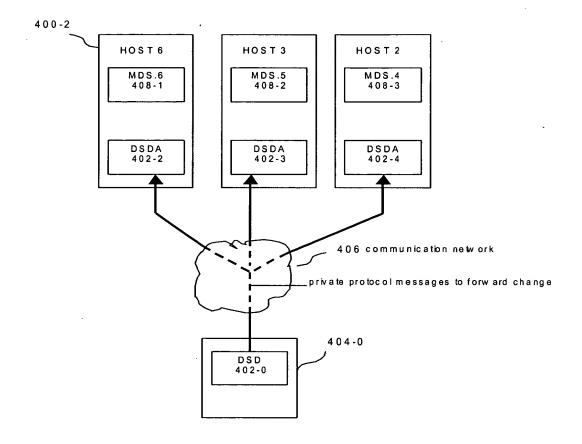
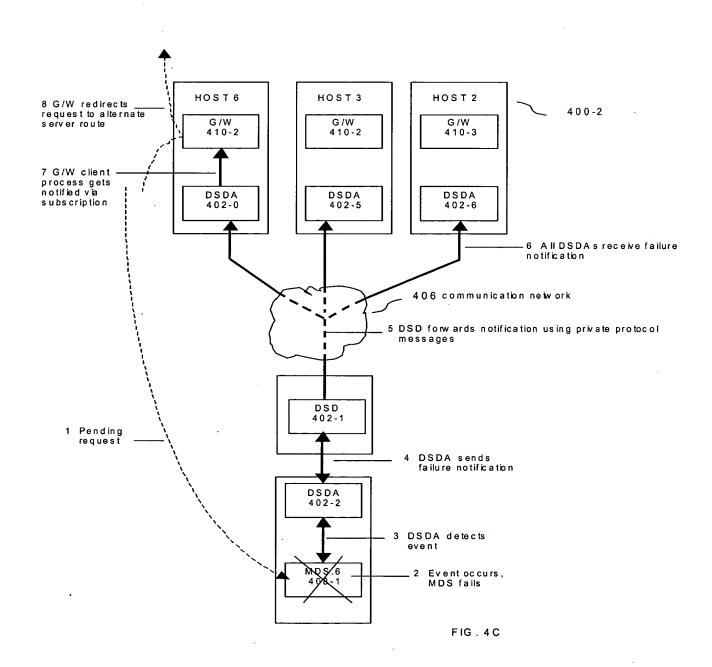


FIG . 4B

```
Function Pushed_Entries {
    input (Pushed_Entries)
    For each Subscribe in Subscription_List
        For each Entry in Pushed_Entries
        If Entry.Table ==Subscribe.Table
        If Entry.key starts with Subscribe.Key_Prefix
        Call Subscribe_Event_Handler
    }
```

FIG. 5E



```
Function Key_Search {
   input (Table_Name, Prefix)
   For all Entries in Table Name,
       If Entry.Key starts with Prefix
       Add Entry to Entry_List
   output (Entry_List)
   }
    FIG. 5A
Function Find_Server {
   Call Key_Search input (Server_Table, Prefix), output (Server_Route)
   Extract Host_Name from Server_Route
   Call Key_Search input (Host_Route_Table, Host_Name), output (Host_Route)
   Replace Host_Name in Server_Route with Host_Route to construct Complete_Server_Route
   Output (Complete_Server_Route)
    FIG. 5B
Function Heartbeat {
  input (Entry.Key, Time_Max)
       Entry. Valid = 1, Time = 0
       If Heartbeat received while Time < Time Max
           Time = 0
      If Time ≥ Time_Max
           Entry.Valid = 0
  }
    FIG. 5C
Function Subscribe {
  input (Subscribe)
      Record subscription (Table, Key_Prefix, Event_Handler, Context,...)
         in Subscription_List
  }
    FIG. 5D
```

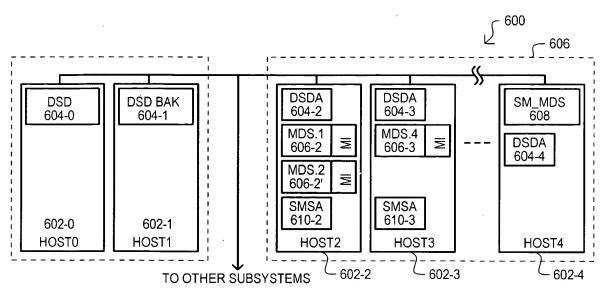


FIG. 6A

DSD_MTID_SE	RVICE_MA	STER	
KEY	VALUE	VALID	
			ר!
			_
SMSA_HOST2	10.6.0.2	1	-
SMSA_HOST2 SMSA_HOST3	10.6.0.2 10.6.0.8	1	-

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	NT_IF	ANAGEME	DSD_MTID_M
1	VALID	VALUE	KEY
].			
1.			
ľ	1	10.6.0.2	MI_MDS.1.0
 	1	10.6.0.2	MI_MDS.1.0 MI_MDS.1.1

FIG. 6C

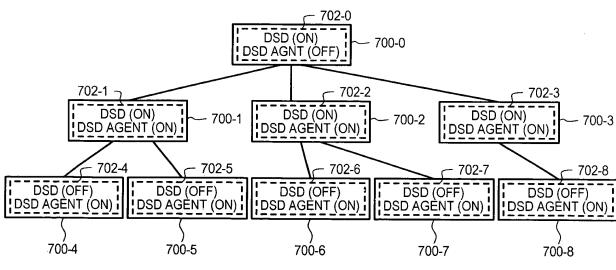


FIG. 7